



Developer Kits and Sensor Wizard

Stalker Sensor Developer Kits

Sensor Developer Kits are designed to perform a broad array of tasks in a number of configurations. Some systems use the sensors with the Stalker Sensor Wizard Application in RS-232 or RS-485, while other sensors are connected directly to their own proprietary systems, also in RS-232 or RS-485 interface.

The kits themselves contain parts which may or may not pertain to your specific application, but can be ordered separately. For example, in some cases, once the sensor is configured, the Programming Box is no longer necessary. And, the Programming Box can be used over and over to configure, test, and reset sensors.

Overall, the purpose of the Stalker Developer Kit:

- Configure or test the sensor
- Interface with Stalker Sensor Wizard Application
- In the case of setup issues, reset the sensor to product defaults



200-0702-00
(RS-232)



200-0730-00
(RS-485)

(Sensors not included
in Developer Kits)



200-1026-00



STALKER® Intelligent Technologies

StalkerRadar.com

applied concepts, inc.

2609 Technology Drive ■ Plano, Texas 75074 ■ 972.398.3780 ■ Fax 972.398.3781

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800-STALKER

006-0561-00 Rev B



High Performance Sensors for OEM Applications

Stalker Radar has distilled its speed measurement and detection expertise into its Intelligent Technologies suite of Speed Measurement, Transportation and Traffic, Sports, and Surface Velocity sensors. Stalker Radar precision is now available to engineers worldwide to address virtually any speed measurement application.

- Stalker Stationary Speed Sensor II
- Stalker Traffic Statistics Sensor
- Stalker Speed CCTV Sensor
- Stalker Traffic Speed Sensor
- Stalker Stationary Speed Sensor
- Stalker Speedometer Sensor
- Stalker Surface Velocity Sensor



StalkerRadar.com

STALKER® Intelligent Technologies

800-STALKER

Stalker Stationary Speed Sensor II

Stalker’s new Stationary Speed Sensor II is the key component in any OEM speed measurement application.

FEATURES	
■ mph, km/h, knots, m/s, ft/s	
■ RS-232, RS-485	
■ 11 streaming, 3 polled protocols	
■ IP67 rated	
■ Low power consumption < 1 watt	
■ 1-Year parts and labor warranty	

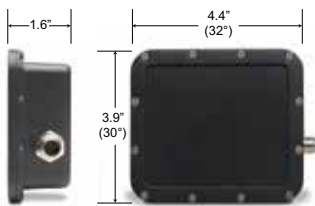
Performance	
Range	>1300 feet (400 m)
Minimum Speed.....	1 mph(1.6 km/h)
Maximum speed	200 mph (321.9 km/h)
Speed Resolution	0.1 mph (.16km/h)
Speed Accuracy.....	±0.5 mph ±0.3%
	±0.8 km/h ±0.3%
Directionality selections - Approaching, Receding, Both	

Communications Ports	
■ 4 communications types	
■ RS-485 full duplex	
■ RS-485 half duplex	
■ RS-232 , no flow control	
■ RS- 232 with hardware flow control	
■ Up to Three simultaneous ports,	
■ one RS-485 FD and one RS-232 port available simultaneously	
■ Two RS-485 HD and one RS-232 port available simultaneously	
■ Any output protocol on any port	
■ Baud rates – 9.6K to 115.2K baud	
■ 11 streaming protocols	
■ 3 polled protocols	
■ Sensor are addressable with multi-drop capabilities	

Trigger Output	
■ Electrically isolated trigger contacts	
■ Two normally open (NO) contacts	
■ 60 volt max	
■ 400 mA max	

Environmental	
Operating temp.	-22° F (-30° C) to +158° F (+70° C)
Storage temp.	-49° F (-45° C) to +185° F (+85° C)
Ingress rating	IP67

Physical characteristics	
Size (LxWxD) excluding connector	4.4 x 3.9 x 1.6 inches (11.2 x 9.9 x 4 cm)
Weight	<13 oz. (.35 kg)
Housing	Die-cast aluminum
Lens	HDPE
Electrical connector	M12, 12 pin
Mounting	4 x 10-32 UNF



See center spread for Packages, Developer Kits, Cables, Connectors, Manuals, and Software.



Low power consumption, small size, and competitive price all make Stalker’s new Stationary Speed Sensor II the right choice for nearly any speed measurement application.

The Stalker Stationary Speed Sensor II utilizes digital signal processing that enables it to track vehicles either moving toward it, vehicles moving away, or both directions simultaneously.

Microwave	
Center frequency	24.125 GHz
Frequency range	100 MHz
Transmit power	100 mW
Beam width.....	30° by 32°
F.C.C. Approved. No license required.	

Power	
Voltage.....	10 to 45 volts, DC
Current (24 volts DC).....	80 mA @ 12 VDC typical
Power	<1 watt
Protections	
■ Transient protection	
■ Reverse voltage protection	
■ Resettable Fuse	

Part Number	Description	
200-0880-00	Side Port RS-232 and RS-485	
200-0880-52	Rear Port RS-232, RS-485 and USB	
200-0880-55	Side Port USB only	
200-1004-00	K-Band Sensor without enclosure	

Stalker Surface Velocity Sensor

Stalker’s Surface Velocity Sensor sets a new standard in OEM waterflow management.

FEATURES	
■ User adjustable tilt compensation adjusts speed reading based on angle to target.	
■ Measures: meters/second, feet/second, miles per hour, and kilometers per hour.	
■ Digital Signal Processing.	
■ Senses flow direction - moving away, closing, or both directions.	
■ 4 levels of sensitivity.	

The Speed Sensor SVR features a rugged cast-metal exterior and the world’s most sensitive transmitter/receiver as well as miniaturized and modernized electronics. Its direction sensing software and updated algorithms position the Speed Sensor SVR as a new-generation radar ideal for the task of accurate and reliable water flow measurement. Moreover, the Speed Sensor SVR’s Ka- Band performance measuring water flow is superior to the K Band used by some of its competitors’ radars.

To make it better suited for measuring from elevated perspectives, the Speed Sensor SVR can be easily adjusted by the end user to compensate its speed reading based on the angle that the radar points at the target flow.

The Speed Sensor SVR has a speed range of 0.2 m/s to 18.0 m/s – from below 1 mph to over 40 mph – with an accuracy of ±0.1 m/s. And it measures in meters/second, feet/second, miles per hour, and kilometers per hour.



General Specifications

Type:	Surface Velocity Radar Sensor
Operating Frequency:	34.7 GHz (Ka-Band)
Stability:	±100 MHz
Power Requirements:	Voltage: 9 - 24 VDC Current: (at 12 VDC nominal) Transmitter on: 470 mA Transmitter off: 100 mA
Environmental	Operating: -22° F (-30° C) to +158° F (+70° C), 90% relative humidity, Non-operating:-40° F (-40° C) to +185° F (+85° C)
Mechanical:	Weight – 1.15 lb. (0.52 kg) Diameter – 2.6 in. (6.7 cm) Length – 4.7 in. (11.8 cm) Case Material – Aluminum die cast
Accuracy:	± 0.1 m/s
Auto Self-Test:	Performed every 10 minutes while transmitting
Speed Range:	0.2 m/s to 18 m/s

Microwave Specifications

Antenna:	Conical horn
Polarization:	Circular
3DB Beamwidth:	12° ±1°
RF Source:	Gunn-Effect diode
Receiver Type:	Two direct-conversion homodyne receivers using four low-noise Schottky barrier mixer diodes
Power Output:	20 mW minimum 25 mW nominal 50 mW maximum
Power Density:	2 mW/cm2 maximum at 5 cm from lens

Factory Configuration (defaults in Bold)

Units:	ft/s (feet/sec), m/s (meters/sec), mph (miles/hour), or km/h (kilometers/hour)
Serial Port Baud Rate	9600
Serial Port Data Format	Current Speed only or longer messages with speed, strength, and averages.
Communications Protocol	RS-232 and RS-485

Field Configuration (defaults in Bold)

Radar Zone:	Away, Closing or Auto directional sensitivity may be selected
Horizontal Angle	From 0° to 70° may be selected in 5° increments
Vertical Angle	From 0° to 70° may be selected in 5° increments
Sensitivity	4 levels of field sensitivity may be selected (1/2/3/4 max)

See center spread for Packages, Developer Kits, Cables, Connectors, Manuals, and Software.

Stalker Speedometer Speed Sensor

Stalker’s Speedometer Speed Sensor features high accuracy and direction sensing capabilities for numerous applications.

FEATURES
■ Senses ground speed of object-mounted speed sensor (e.g. vehicle)
■ Direction sensing (forward/reverse)
■ Adjustable ground speed sensitivity
■ Adjustable automatic gain control (AGC) range
■ Speed units selectable: mph, km/h, nautical miles/hr (knots), feet/sec, meters/sec
■ Unit or tenths resolution selection
■ RS-232 or RS-485 serial interface supporting baud rates up to 38400
■ Selectable output protocols and data formats

If the application is in motion, the Speedometer Speed Sensor fits the assignment. Think of it as a Radar Speedometer and more. For example, since it’s direction sensing it can measure speed in both directions. Use it anywhere the object that it’s mounted on is in motion.



Stalker Speedometer Speed Sensor application:

- Locomotive speedometer and other train or railroad applications
- Agricultural applications
- Warehouse safety
- Ship docking operations

General Specifications

Type:	Moving Doppler Speed Sensor
Operating Frequency:	34.7 GHz (Ka-Band)
Stability:	±100 MHz
Communication Preference:	RS-232 or RS-485 available as separate models
Power Requirements:	Voltage: 9 - 16 VDC for SN ST6560 and below 9 - 24 VDC for SN ST6561 and above Current: (at 12 VDC nominal) Transmitter on: 370 mA Transmitter off: 100 mA
Environmental	Operating:-22° F (-30° C) to +158° F (+70° C), 90% relative humidity, Non-operating:-40° F (-40° C) to +185° F (+85° C)
Mechanical:	Weight – 1.15 lb. (0.52 kg) Diameter – 2.6 in. (6.7 cm) Length – 4.7 in. (11.8 cm) Case Material – Aluminum die cast
Accuracy:	+/- 0.3% - Speeds are rounded down to the nearest unit or tenths of a unit depending on the unit resolution setting
Auto Self-Test:	Performed every 10 minutes while transmitting
Ground Speed Range:	Low ground speed acquisition threshold configurable: Standard acquisition of <1 to 90 mph (<1.6 to 144 km/h), when Ground Speed Lo Cutoff = Low Optional acquisition of 20 to 90 mph (32 to 144 km/h), when Ground Speed Lo Cutoff = High Ground speed, once acquired, will track to 199 mph (320 km/h)

Microwave Specifications

Antenna:	Conical horn
Polarization:	Circular
3DB Beamwidth:	12° ±1°
RF Source:	Gunn-Effect diode
Receiver Type:	Two direct-conversion homodyne receivers using four low-noise Schottky barrier mixer diodes
Power Output:	10 mW minimum 15 mW nominal 25 mW maximum
Power Density:	1 mW/cm2 maximum at 5 cm from lens

Control and Configuration Settings

Basic Configuration	Transmitter Control Unit of Measure Unit Resolution
Serial Port Configuration:	Baud Rate Output Format Leading Zero Character Message Period
Target Recognition:	Ground Speed Sensitivity Patrol Speed Blank
Target Filtering:	Patrol Speed Low Cutoff Max AGC Gain Min AGC Gain Current AGC Gain
Testing:	Fork Enable Test
System:	Get Product ID

See center spread for Packages, Developer Kits, Cables, Connectors, Manuals, and Software.

Stalker Speed CCTV Sensor

Take your CCTV to the next level by including a speed/date/time stamp on your video evidence.

FEATURES
■ Compatible with most video surveillance systems
■ Affordable and portable
■ Tracks vehicles up to 900 feet
■ Waterproof and weatherproof
■ Low power consumption
■ 1-Year parts and labor warranty

The Stalker Speed CCTV Sensor is accurate and powerful, and when added to an existing CCTV system, provides enforceable speed violation evidence for private use.

This sensor can be used to monitor speeds of vehicles at commercial facilities where controlled speeds are required to maintain a safe and productive environment.



Performance

Speed range.....	1-200 mph (1-321 km/h)
Speed resolution	1 mph (1 km/h)
Speed accuracy.....	+/- 0.3%
Range.....	900 feet (274 meters)
Update rate	20 times per second
Directivity	Closing, away, or both
Cosine adjustments.....	2 axis

Power

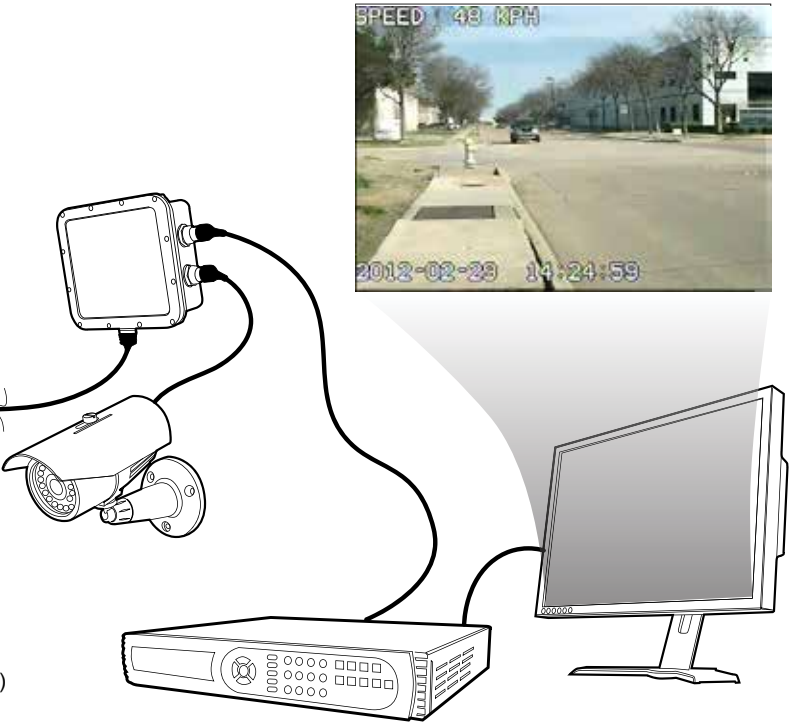
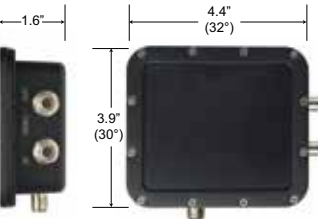
Voltage	10 to 30 VDC
Power	<1.5 watts
Current @ 12 VDC	125 mA

Microwave

Frequency	24.125 GHz (US) 24.200 GHz (EU)
Power	100 mW
Beam width.....	30° by 32°
Certification	FCC part 15

Environmental and Packaging

Temp. range	-22° F (-30° C) to +158° F (+70° C)
Ingress rating.....	IP67
Housing	Die-cast aluminum
Size	4.4 x 3.9 x 1.6 inches (11.2 x 9.9 x 4 cm)
Mounting.....	4 x 10-32 UNF



See center spread for Packages, Developer Kits, Cables, Connectors, Manuals, and Software.

Stalker Traffic Statistics Sensor

Stalker’s Traffic Statistics Sensor delivers high performance with low power requirements for pole mount or speed/message trailer application.

FEATURES

Low power consumption < 1 watt

Collects traffic volume, speeds, direction and classification over time

Internal data memory - autonomous

Collects data in four different modes

Tracks up to 10 moving vehicles simultaneously

Waterproof and weatherproof

Streaming raw data output

Works with Stalker Traffic Statistics App for data analysis and presentation

The Stalker Traffic Statistics Sensor is a self-contained system to monitor and internally record traffic patterns on roadways in virtually any location and weather condition.

In addition to its statistical capabilities, the unit can track up to 10 moving vehicles simultaneously and operate as an ordinary speed sensor feeding strongest and fastest target information to external systems through a RS-232 or RS-485 interface.

Designed for use with the Stalker Traffic Statistics Application.



- Trigger Output
- Electrically isolated trigger contacts

Two normally open (NO) contacts

60 volt max

400 mA max

Microwave

Center frequency 24.125 GHz

Frequency range 100 MHz

Transmit power 100 mW

Beam width.....30° by 32°

F.C.C. Approved. No license required.

- Power
- Voltage10 to 45 volts, DC

Current 80 mA @ 12 VDC typical

Power<1 watt

Protections

Transient protection

Reverse voltage protection

Resettable Fuse

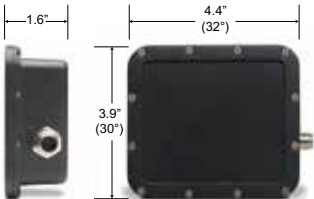
Environmental

Operating temp.....-22° F (-30° C) to +158° F (+70° C)

Storage temp.....-49° F (-45° C) to +185° F (+85° C)

Ingress rating..... IP67

Part Number	Description	
200-0880-01	Side Port RS-232 and RS-485	
200-0880-53	Rear Port RS-232, RS-485 and USB	
200-0880-54	Side Port USB only	



See center spread for Packages, Developer Kits, Cables, Connectors, Manuals, and Software.

Performance

Range >1300 feet (400 m)

Minimum Speed..... 1 mph(1.6 km/h)

Maximum speed 200 mph (321.9 km/h)

Speed Resolution 0.1 mph (.16km/h)

Speed Accuracy..... ±0.5 mph ±0.3%

..... ±0.8 km/h ±0.3%

Directionality selections Approaching, Receding, Both

- Communications Ports
- 4 communications types

RS-485 full duplex

RS-485 half duplex

RS-232, no flow control

RS- 232 with hardware flow control

Up to Three simultaneous ports,

one RS-485 FD and one RS-232 port available simultaneously

Two RS-485 HD and one RS-232 port available simultaneously

Any output protocol on any port

Baud rates – 9.6K to 115.2K baud

11 streaming protocols

3 polled protocols

Sensor are addressable with multi-drop capabilities

Physical characteristics

Size (LxWxD) excluding connector.....4.4 x 3.9 x 1.6 inches (11.2 x 9.9 x 4 cm)

Weight<13 oz. (.35 kg)

Housing Die-cast aluminum

Lens.....HDPE

Electrical connector M12, 12 pin

Mounting.....4 x 10-32 UNF

Stalker Stationary Speed Sensor

Stalker’s Stationary Speed Sensor, for measuring speed from a fixed position, is the right choice.

FEATURES

Stationary-only operation

Direction sensing (closing or away, simultaneous closing/away)

Longest range available – up to 2 miles

Strongest and faster target detection in all modes

Adjustable sensitivity

RS-232 or RS-485 serial interface with baud rates up to 38400

Selectable output protocols and data formats

General Specifications

Type:	Stationary Doppler Radar Speed Sensor
Operating Frequency:	34.7 GHz (Ka-Band)
Stability:	±100 MHz
Communication Preference:	RS-232 or RS-485 available as separate models
Power Requirements:	Voltage: 9 - 16 VDC for SN ST6560 and below 9 - 24 VDC for SN ST6561 and above Current: (at 12 VDC nominal) Transmitter on: 370 mA Transmitter off: 100 mA
Environmental	Operating: -22° F (-30° C) to +158° F (+70° C), 90% relative humidity, Non-operating:-40° F (-40° C) to +185° F (+85° C)
Mechanical:	Weight – 1.15 lb. (0.52 kg) Diameter – 2.6 in. (6.7 cm) Length – 4.7 in. (11.8 cm) Case Material – Aluminum die cast
Accuracy:	+/- 0.3% - Speeds are rounded down to the nearest unit or tenths of a unit depending on the unit resolution setting
Audio Output:	A 3.3Vpp pulse-width modulated (PWM) audio output signal is provided – must be filtered and amplified for best audio quality.
Auto Self-Test:	Performed every 10 minutes while transmitting
Stationary Speed Range:	Stationary low speed threshold configurable: 1 mph to 200 mph (1.6 to 321 km/h) 12 mph to 200 mph (19 to 321 km/h)

Microwave Specifications

Antenna:	Conical horn
Polarization:	Circular
3DB Beamwidth:	12° ±1°
RF Source:	Gunn-Effect diode
Receiver Type:	Two direct-conversion homodyne receivers using four low-noise Schottky barrier mixer diodes
Power Output:	10 mW minimum 15 mW nominal 25 mW maximum
Power Density:	1 mW/cm2 maximum at 5 cm from lens

See center spread for Packages, Developer Kits, Cables, Connectors, Manuals, and Software.



Control and Configuration Settings

Basic Configuration	Transmitter Control Zone Unit of Measure Unit Resolution Faster Target Tracking AUX Pin Configuration
Serial Port Configuration:	Baud Rate Output Format Leading Zero Character Format D Direction Character Enable (RS-232) Zeros After Target (RS-232) Message Period Format D Update on Change Only (RS-232) Format D Zero Report (RS-232) Polled Modes D0-D4 (RS-232)
Target Recognition:	Opposite Lane/Stationary Sensitivity Fine Sensitivity Adjust Sensitivity Hysteresis Low Sensitivity Target Strength Sensitivity Target Acquisition Quality Target Loss Quality
Target Filtering:	Stationary Low Cutoff Spurious Speed Filter Max AGC Gain Min AGC Gain Current AGC Gain
Speed Presentation:	Cosine 1 Angle Cosine 2 Angle Holdover Delay
Locking Targets:	Lock Option Faster Locking Enable Strongest Lock Fast Lock
Speed Alarm:	Alarm Speed Threshold
Audio:	Doppler Audio Volume Aud 0 Enable Variable Doppler Loudness Squelch Beep Volume
TX Power Save	TX On Time TX Off Time Keep TX On with Target Max TX On Time
Testing:	Fork Enable Auto Test Period Auto Test Mode Enhanced Test
System:	Get Product ID Get Product Type Get Software Version Speed Sensor Address (RS-485 only)

Stalker Traffic Speed Sensor

Stalker’s Traffic Speed Sensor when the application requires a radar with both moving, stationary, and direction-sensing capabilities.

FEATURES	
■	Longest range available – up to 2 miles
■	Simultaneous closing/away operation available in stationary mode
■	Strongest and faster target detection in all modes
■	True Doppler audio output
■	Strongest and faster speed locking
■	RS-232 serial interface supporting baud rates up to 38400
■	Selectable output protocols and data formats

General Specifications

Type:	Moving/Stationary Doppler Radar Speed Sensor
Operating Frequency:	34.7 GHz (Ka-Band)
Stability:	±100 MHz
Communication:	RS-232
Power Requirements:	Voltage: 9 - 16 VDC for SN ST6560 and below 9 - 24 VDC for SN ST6561 and above Current: (at 12 VDC nominal) Transmitter on: 370 mA Transmitter off: 100 mA
Environmental	Operating:-22° F (-30° C) to +158° F (+70° C), 90% relative humidity, Non-operating:-40° F (-40° C) to +185° F (+85° C)
Mechanical:	Weight – 1.15 lb. (0.52 kg) Diameter – 2.6 in. (6.7 cm) Length – 4.7 in. (11.8 cm) Case Material – Aluminum die cast
Accuracy:	+1, -2 mph stationary, +2, -3 mph moving +1, -2 km/h stationary, +2, -3 km/h moving
Audio Output:	A 3.3Vpp pulse-width modulated (PWM) audio output signal is provided – must be filtered and amplified for best audio quality.
Auto Self-Test:	Performed every 10 minutes while transmitting
Stationary Speed Range:	Stationary low speed threshold configurable: 1 mph to 200 mph (8 to 321 km/h) 12 mph to 200 mph (19 to 321 km/h)
Moving Speed Range:	Patrol speed – Low patrol acquisition threshold configurable: <i>Standard</i> acquisition of 1 to 90 mph (8 to 144 km/h), when Patrol Lo Cutoff = Low Optional acquisition of 20 to 90 mph (32 to 144 km/h), when Patrol Lo Cutoff = High Patrol speed, once acquired, will track to 199 mph (320 km/h)
	Opposite lane target speed - 200 mph Max combined closing speed (321 km/h) For 5 mph (8 km/h) patrol speed: 20 mph to 195 mph (32 to 313 km/h) For 70 mph (112 km/h) patrol speed: 35 mph to 130 mph (56 to 209 km/h)
	Same lane target speed – Related to patrol speed: ±70% of patrol speed within 5 mph (8 km/h) of patrol speed i.e. For 50 mph: 16→45 mph and 55→85 mph (For 80 km/h: 25→72 km/h and 88→136 km/h) Same lane patrol speed must be greater than 16 mph (25 km/h).



Microwave Specifications

Antenna:	Conical horn
Polarization:	Circular
3DB Beamwidth:	12° ±1°
RF Source:	Gunn-Effect diode
Receiver Type:	Two direct-conversion homodyne receivers using four low-noise Schottky barrier mixer diodes
Power Output:	10 mW minimum 15 mW nominal 25 mW maximum
Power Density:	1 mW/cm2 maximum at 5 cm from lens

Control and Configuration Settings

Basic Configuration	Transmitter Control Mode Zone Unit of Measure Unit Resolution Faster Target Tracking AUX Pin Configuration
Serial Port Configuration:	Baud Rate Output Format Leading Zero Character Message Period
Target Recognition:	Opposite Lane/Stationary Sensitivity Same Lane Sensitivity Fine Sensitivity Adjust Patrol Speed Blank
Target Filtering:	Stationary Low Cutoff Patrol Speed Low Cutoff Double Suppression Max AGC Gain Min AGC Gain Current AGC Gain
Speed Presentation:	Holdover Delay
Locking Targets:	Lock Option Faster Locking Enable Strongest Lock Fast Lock Patrol Speed Blank
Speed Alarm:	Alarm Speed Threshold
Audio:	Doppler Audio Volume Aud 0 Enable Variable Doppler Loudness Squelch Beep Volume
Testing:	Fork Enable Auto Test Period Auto Test Mode Enhanced Test
System:	Get Product ID Get Product Type Get Software Version

See center spread for Packages, Developer Kits, Cables, Connectors, Manuals, and Software.

Stalker Traffic Statistics Application

Easy to use, full-featured traffic statistics analysis.

FEATURES	
■	Powerful Setup and Configuration
■	Provide Statistics by time period
■	Average Speed
■	85th Percentile
■	10 mph (km/h) pace
■	Max/Min Speeds
■	Over/under limit counts
■	Full color graphical or tabular display
■	Revenue projections

Analyze Collected Data

Once collected, data can be analyzed against numerous metrics and summary statistics for multiple periods, presented in a variety of ways:

- Average speed
- 85th percentile
- 10 mph (km/h) pace
- Max/min speeds
- Over/under limit count

Create Color-coded Graphical displays

- Speed Vs. Time
- Vehicle Count vs. Time
- Vehicle count vs. Speed

Determine revenue projections

- Set speed bin value amount
- Set speed bin ticketing probability

Display using various filters

- View only desired direction
- View only desired vehicle classification

Easy setup and configuration

The Stalker Traffic Statistics App uses a single menu screen to set up survey parameters, measurement units, and data resolution. The application automatically detects the sensor’s serial port connection and baud rate.

The Survey Setup Screen allows the user to define and identify various elements of the survey, such as name, Operator ID, survey address, zone, traffic direction, Speed in mph, km/s, knots, meters/sec, or feet/sec, and much more.

Survey Calendar Setup

The Survey calendar is controlled through a simple-to-use but powerful interface.

Survey mode timing such as Always On, Continuous Period - Single period for survey, Daily Schedule - Every day at the same time, Selected Days - Specific days

Stalker Traffic Statistics App is a comprehensive, full-featured traffic statistics collection and analysis tool designed for law enforcement officers, traffic engineers, city maintenance departments, and other government safety personnel.

The application controls radar sensor setup, survey data extraction, survey data analysis, and report creation, while working seamlessly with the Stalker Traffic Statistics Sensor.

The Traffic Statistics Sensor collects and stores raw data in embedded non-volatile memory until accessed by the application.



Vehicle Speed vs. Time

Output/Display Analysis Data

Output in both graphical and tabular data in multiple chart types

- 3-D Chart
- Line
- Column
- Stacked Column
- Area

Send to printer or PDF file or export data to Excel compatible text file



Tabular Data Results

Revenue Controls

- Estimates approximate revenue based on speed counts over the defined speed limit.



Vehicle Count vs. Speed

Sensor	Part number	Description	Range	Package(s)	Developer Kit(s)	I/O Cable	Connector(s)	Tech. Manual	User Manual	Software	
Stalker Stationary Speed Sensor II	200-0880-00	K-Band - Side port Speed Sensor. Low power consumption for speed trailers, pole mounted speed signs, and photo radar - protected by IP67 waterproof case.	.23 mi. .37 km	831-2010-00 Base* 831-2000-00 with Developer Kit**	200-1026-00	155-2360-01 RS-232 and RS-485 Power/serial data adaptor		011-0131-00	011-0131-01	Dashboard 200-0972-00	
	200-0880-52	K-Band - Rear port Speed Sensor, RS-232, RS-485, and USB. Low power consumption for speed trailers, pole mounted speed signs, and photo radar - protected by IP67 waterproof case.	.23 mi. .37 km	831-1000-00	200-1026-00 RS-232 and RS-485 200-1028-00 USB	155-2360-01 RS-232 and RS-485 155-2357-01 USB		011-0131-00	011-0131-01	Dashboard 200-0972-00	
	200-0880-55	K-Band - Side port USB only. Track up to 10 moving vehicles simultaneously and internally records data for collection and download to PC for analysis.	.23 mi. .37 km	831-2100-00 Base*	200-1028-00 USB	015-0610-03 USB		011-0131-00	011-0131-01	Stalker Traffic Statistics App 200-0973-00 & Dashboard 200-0972-00	
	200-1004-00	K-Band Sensor without enclosure. Includes wiring harness ready for incorporating into OEM system.	.23 mi. .37 km	N/A	N/A	N/A	N/A	011-0131-00	011-0131-01		
Stalker Traffic Statistics Sensor	200-0880-01	K-Band - Side port. Track up to 10 moving vehicles simultaneously and internally records data for collection and download to PC for analysis.	.23 mi. .37 km	831-2299-00 Base* 831-2300-00 with Developer Kit**	200-1026-20	155-2360-01		011-0131-00	011-0131-01 (Speed Sensor) 011-0132-00 (Traffic Sensor) 011-0146-00 (App)	Stalker Traffic Statistics App 200-0973-00 & Dashboard 200-0972-00	
	200-0880-53	K-Band - Rear port Speed Sensor, RS-232, RS-485, and USB. Track up to 10 moving vehicles simultaneously and internally records data for collection and download to PC for analysis.	.23 mi. .37 km	831-2290-00	200-1026-20 RS-232 and RS-485 200-1028-20 USB	155-2360-01 RS-232 and RS-485 155-2357-01 USB		011-0131-00	011-0131-01	Stalker Traffic Statistics App 200-0973-00 & Dashboard 200-0972-00	
	200-0880-54	K-Band - Side port USB only. Track up to 10 moving vehicles simultaneously and internally records data for collection and download to PC for analysis.	.23 mi. .37 km	831-2402-00 Base*	200-1028-20 USB	015-0610-03 USB		011-0131-00	011-0131-01	Stalker Traffic Statistics App 200-0973-00 & Dashboard 200-0972-00	
Stalker Speed CCTV Sensor	200-0981-00	K-Band - Add speed sensing capabilities to an existing CCTV system: Overlays current date with a time stamp, along with the speed of the strongest detected moving target.	.23 mi. .37 km	831-2501-00 Base* 831-2500-00 with Developer Kit**	200-1026-00	155-2360-01	 (X2)		011-0153-00	Dashboard 200-0972-00	
Stalker Pro II Speed Sensor	200-0853-00 RS-232 200-0854-00 RS-485	Ka-Band - Scoreboards, Tennis facilities. Directional - tracks a wide variety of objects including baseballs, vehicles, tennis balls, and hockey pucks. PC application available for configuration.	1.75 mi. 2.81 km	818-1001-00 RS-232 with Developer Kit** 818-1002-00 RS-485 with Developer Kit**	200-0863-00 RS-232 200-0864-00 RS-485	155-2223-00 RS-232 155-2239-02 RS-485			011-0116-00	Scoreboard App 200-0865-00	
Stalker Traffic Speed Sensor	200-0644-00	Ka-Band - For speed sensing application requiring the monitoring of target speed in a mobile environment. Direction sensing, with both moving and stationary capabilities.	1.75 mi. 2.81 km	818-2410-00 RS-232 Base* 818-2411-00 RS-232 with Developer Kit**	200-0702-00 RS-232	155-2223-00			011-0110-00	Dashboard 200-0707-00	
Stalker Stationary Speed Sensor	200-0644-01 RS-232 200-0679-01 RS-485 200-0644-50 RS-232 (right angle connector)	Ka-Band - For measuring speed from a fixed position - speed warning signs, traffic studies, rail crossing safety, rail yard operations.	1.75 mi. 2.81 km	818-0003-00 RS-232 Base* 818-0005-00 RS-485 Base* 818-0001-00 RS-232 with Developer Kit** 818-0000-00 RS-485 with Developer Kit**	200-0702-00 RS-232 200-0730-00 RS-485	155-2223-00 RS-232 155-2239-02 RS-485			011-0110-00	Dashboard 200-0707-00	
Stalker Speedometer Sensor	200-0644-02 RS-232 200-0679-00 RS-485	Ka-Band - Direction sensing (forward/ reverse). Senses ground speed of the object. Use for locomotive speedometer, agricultural applications, warehouse safety, ship docking operations.	1.75 mi. 2.81 km	818-2449-00 RS-232 Base* 818-2452-00 RS-485 Base* 818-2450-00 RS-232 with Developer Kit** 818-2451-00 RS-485 with Developer Kit**	200-0702-00 RS-232 200-0730-00 RS-485	155-2223-00 RS-232 155-2239-02 RS-485			011-0110-00	Dashboard 200-0707-00	
Stalker Surface Velocity Sensor	200-0814-00 RS-232 200-0914-00 RS-485	Ka-Band - Tilt compensation and DSP, combined with direction sensitivity, horizontal angle adjustment, and 4 levels of sensitivity for all water flow measurement applications.	1.75 mi. 2.81 km	818-0007-00 RS-232 Base* 818-0008-00 RS-485 Base* 818-0004-00 RS-232 with Developer Kit** 818-0006-00 RS-485 with Developer Kit**	N/A	155-2223-00 RS-232 155-2239-02 RS-485			011-0110-00	N/A	

* **Base Packages:** Base packages consist of a sensor, unterminated cable, software, manual, and Certificate of Accuracy.

** **Packages with Developer Kits:** Packages with Developer Kits consist of sensor, Developer Kit (see back page for more information), tuning fork, dash mount, manual(s), and Certificate of Accuracy.